

# UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/812,791	(	03/20/2001	Jun-Ichiro Hara	33216	1188
	7590	05/28/2003			
		Coy & Granger	EXAMINER		
1200 Leader Building Cleveland, OH 44114				NGUYEN, V	INCENT Q
				ART UNIT	PAPER NUMBER
				2858	
				DATE MAILED: 05/28/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	M.				
•		09/812,791	HARA ET AL.	-,-				
	Office Action Summary	Examiner	Art Unit					
	_	Vincent Q Nguyen	2858					
	The MAILING DATE of this communication or Reply	n appears on the cover sheet wi	th the correspondence ac	Idress				
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR RI MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, to period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by steeply received by the Office later than three months after the ried patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a report. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MON's statute, cause the application to become AB.	eply be timely filed  y (30) days will be considered time THS from the mailing date of this of ANDONED (35 U.S.C. § 133).	ly. ommunication.				
1)🛛	Responsive to communication(s) filed on	<u>12 May 2003</u> .						
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
-	ion of Claims							
4)⊠	Claim(s) <u>6 and 11-17</u> is/are pending in the							
	4a) Of the above claim(s) is/are with	hdrawn from consideration.						
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>6 and 11-17</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction a	and/or election requirement.						
Applicat	ion Papers							
,	The specification is objected to by the Exam							
10)	The drawing(s) filed on is/are: a)							
	Applicant may not request that any objection							
11)∐	The proposed drawing correction filed on _		isapproved by the Examir	ier.				
	If approved, corrected drawings are required							
· -	The oath or declaration is objected to by th	e Examiner.						
-	under 35 U.S.C. §§ 119 and 120							
13)	Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. {	§ 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority docur	ments have been received.						
	2. Certified copies of the priority docur	ments have been received in A	pplication No					
* 1	Copies of the certified copies of the application from the International See the attached detailed Office action for a second control of the action for	al Bureau (PCT Rule 17.2(a)).		Stage				
	See the attached detailed Office action for do	•		ıl application)				
•	a)   The translation of the foreign languag			п арричанопу.				
	Acknowledgment is made of a claim for do	•						
Attachmer —	nt(s)	_						
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94 rmation Disclosure Statement(s) (PTO-1449) Paper N	8) 5) Notice of I	Summary (PTO-413) Paper No nformal Patent Application (PT					

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of the species of figure 1 in Paper No. 6 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). The Election/Restrictions requirement is thus made FINAL.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 3. Claims 6, 11-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Theus et al. (5,604,433).

Regarding claim 6 Theus et al. discloses a device comprising (Figure 1) a magnetic field element (1), which outputs a signal in accordance with an applied magnetic field strength; an amplifier (7), which amplifies the output signal of this Magnetic field element (1) and outputs a voltage signal across a pair of output terminals (9, 10); a condenser (6) of which both ends (+, - either 8 or 13 or both 8 and 13) are connected to the pair of the output terminals (9, 10) of said amplifier (7); a switch part (12, 12') which is inserted and makes a connection between one of said output terminals (9, 10) in the pair and one terminal of said condenser (6) and which is closed

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by a first period of a signal (S3) (Figure 2) (See also column 5, lines 34) given from an outside of said switch part (12, 12') and is opened by a second period of a signal (P2) (Figure 2) (See also column 6, lines 8-10) given from the outside of said switch part (12, 12') (See element 20); and a pair of an output terminals (Connected 9 and 10 to 13) which outputs the voltages of both ends of said switch (12, 12'), respectively, wherein the polarities of the voltage signals for the pair of the output terminals (9, 10) of said amplifier (8) at the first period of said signal (S1) and at the second period of said second signal are mutually opposite polarities (Column 4, lines 28-30) (P1 and p2 are 180° phase difference, the output is thus opposite polarities).

Regarding claim 11, Theus et al. discloses magnetic field element (1) is a Hall element.

Regarding claim 12, Theus et al. discloses a device comprising (Figure 1) a magnetic field element (1) which outputs a signal in accordance with an applied magnetic field strength; an amplifier (7) which amplifies a signal from this magnetic field element (1), which polarities in a first signal period (S1) and in a second signal period (S2) are mutually opposite (See figure 2), and outputs a voltage signal across a pair of output terminals (9, 10); a condenser (6) of which both ends (+, - of 8 and 10) are connected to the pair of the output terminals (9, 10) of said amplifier (7); a switch part (12, 12') which is inserted and makes a connection between one (Non-inverting + of element 8) of said output terminals (9, 10) in the pair and one terminal (Inverting – of element 8) of said condenser (6), and which is closed at the first signal (Column 5, lines 30-35) period and is opened at the second signal period (Column 6, lines 8-10); and a

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pair of output terminals (Connected 9 and 10 to 13) which outputs the voltages of both ends of said switch (12, 12'), respectively.

Regarding claim 15, the claim recites a method read out from the apparatus of claims 6 and 11, thus the claim is rejected as applied to claim 6 and 11.

Regarding claims 13, 16, Theus discloses the magnetic field element (1) is a Hall element.

Regarding claim 14, Theus discloses a switch circuit (20), which switches the voltage, outputted from said magnetic field element (1) to have opposite polarities in a first signal period (P1) and a second signal period (P2) and which outputs the switched voltage.

Regarding claim 17, Theus et al. discloses halting a power source supply (5) to the magnetic field sensor (1) in every constant period (See figure 2).

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent Q Nguyen whose telephone number is (703) 308-6186. The examiner can normally be reached on Mon-Fri 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (703) 308-0750. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-5841 for regular communications and (703) 308-5841 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Vincent Q. Nguyen

May 24, 2003

Supervisory Patent Examiner Technology Center 2800